

## **Corrective Action Framework Meeting Honeywell Frankford Plant**

PAD002312791 – Philadelphia February 12, 2015

- Introductions
- Statement of Meeting Objectives
- Brief Review of Previous Meeting
- Corrective Action Objectives by Media
- Objectives for Investigation Workplan
- Current Site Conceptual Model
- Data Gaps and Proposed Sampling Locations
- Summary and Discussion

- Agree on remaining site work to complete Facility Investigation and support a Final Remedy
- Agree on Constituents of Concern
- Discuss a schedule for Facility Investigation

- Applied Regional Screening Levels to all compounds to determine COCs
- Identified data gaps in six areas to be further investigated
- EPA also requested further investigation into deep groundwater flow and contamination
- Reviewed potential receptors and exposure routes
- Reviewed potential corrective measures to eliminate exposure routes



#### **Corrective Action Objectives by Media**

#### **Surface Soil**

 Control or eliminate direct exposure pathways from surface soil to potential receptors onsite and offsite

#### **LNAPL Plume**

- Prevent LNAPL migration offsite
- Reduce the mass of LNAPL to maximum extent practicable

#### Groundwater

- Restrict offsite migration of impacted groundwater
- Maintain plume stability
- Monitor annually for further reductions in COCs
- Eliminate complete risk pathways

#### **Vapor Intrusion**

• Eliminate possibility of complete VI exposure pathways

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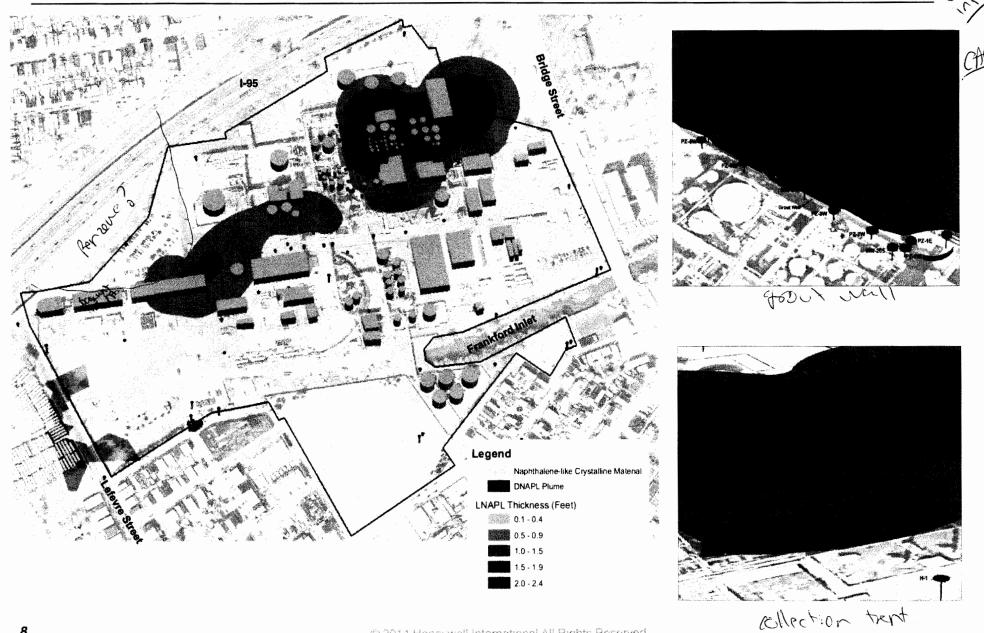
#### **Objectives for Investigation Work Plan**

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identified during previous meeting
delineation considering MCLs and complete exposure pathways
characterize top two feet of soil in anticipation of deed restriction
offsite soil impact under Lefevre Street, where naphthalene-like material requires visual delineation
evaluated in 2014 and mitigation efforts underway by Plant
evaluated in 2014, will be reevaluated after final investigation to address data gaps

#### **2013 Conceptual Site Model**

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Had south

#### **Data Gaps & Proposed Sampling Locations**

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- LNAPL identified at property line (TWP-09; 2013 investigation)
- No delineation beyond TWP-09 (offsite)
- Propose three TWPs to determine extent of LNAPL
- Propose one MW to delineate and monitor plume
- Remedy may include further recovery efforts

#### **LNAPL Migration to the Northeast**

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- MW-106: intermittent MCL exceedances
- MW-105: no MCL exceedances
- Arsenal report suggests plume migration between MW-105 and MW-106
- Propose one MW to close gap between MW-105 and MW-106
- Remedy may include LNAPL recovery and natural attenuation of dissolved-phase COCs

#### **Eastern Boundary along Bridge Street**

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### Data Gaps & Proposed Sampling Locations ..

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- Material encountered at various depths on the western boundary
- Material extends offsite into Lefevre Street and adjacent properties
- Evidence of localized groundwater impact
- Propose four soil borings to complete delineation
- Remedy may include deed restrictions of affected properties

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Naphthalene-like Crystalline Material

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- MW-110: fluctuations in BTEX and cumene
- MW-118: historical fluctuations; 2014 data show COCs < MCLs</li>
- Source is undetermined
- Propose three MW to delineate COCs
- Re-evaluate potential for VI in Admin and Laboratory buildings
- If site-related, remedy may include groundwater recovery

#### **Northwest Benzene Area**

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- No soil lab data for the 0–2 feet range
- Propose collection of soil samples at approximately 25 locations, to be analyzed for VOC and SVOC
- Remedies may include hot-spot excavation and/or engineering controls to prevent direct contact, as well as deed restriction of entire plant

#### Site-wide Shallow Soil

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- Currently ten deep wells screened above bedrock
- DNAPL encountered in MW-302 only and delineated by four surrounding deep wells
- Residual product delineated by TarGOST in 2012
- Reviewed regional bedrock groundwater flow; no further investigation proposed
- Remedy may include DNAPL recovery from MW-302 → \( \cdot\) \( \cdot\)

**Deep Groundwater and DNAPL** 

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#### Document Submittals

- Site map with all wells submitted
- Cross sections with sewers submitted
- GIS Data submitted
- New QAPP to be submitted with Investigation Work Plan
- Future Submittals to be electronic

#### Timeline

- Verbal agreement of work scope
- Submittal of final Work Plan within 60 days of work scope agreement
- Initiate field work within 30 days of written EPA approval of Work Plan and following receipt of offsite property access agreements

- Communication
  - EPA attendance at sampling events
  - Routine progress calls

## Open Discussion & Questions

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